

ELASTOMERIC ARTICLE WITH FINE COLLOIDAL SILICA SURFACE TREATMENT, AND ITS PREPARATION

ABSTRACT OF THE DISCLOSURE

A surface-modified article is formed of an elastomeric matrix, such as a glove shape, and a plurality of fine silica particles affixed to at least a portion of the surface of the matrix, the outside surface in the case of the glove. The fine silica particles increase the coefficient of friction of the article surface. The fine silica particles may also be made electrically conductive, so that static charge at the surface of the article is dissipated. The silica particles are applied by mixing them into a coating composition, applying the coating composition to the surface of a mold, and solidifying a flowable elastomeric composition against the coated surface. The coating composition may include a coagulant or a parting agent.

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